



LYCOMING COLLEGE REPORT

December 1981

National spotlight focuses on Lycoming

Student's H-bomb plan attracts major media

A Lycoming student's plan to construct a hydrogen bomb has brought him and the college national attention. Albert R. Stoner, 21, of Altoona, revealed his design for the H-bomb at a colloquium sponsored by the physics department on Dec. 7 in Room D-001, the largest lecture hall in the Academic Center. The colloquium attracted more than 600 students and faculty members, and numerous reporters and correspondents from across the East, including TV crews representing the three major television networks.

Stoner, a senior astronomy major who would like to teach after graduation in May, designed the bomb as one of two projects he is required to complete by the physics department. He actually began the project four years ago and has worked on it off and on ever since.

The project captured the attention of the national media immediately after Lycoming's public relations office announced the colloquium. Stoner began receiving requests for interviews and comments on the day the Associated Press and United Press International wire services carried stories on the project.

Among the interviews Stoner did were those with radio stations in Los Angeles, Philadelphia and Detroit, with correspondents for the three TV networks, and with reporters from a variety of newspapers. Newspapers that carried stories included the New York Times and Philadelphia Inquirer, and newspapers from as far away as Kansas and Florida. The Canadian Broadcasting Company also contacted him.

Stoner's project showed imagination, creativity, and a sound knowledge of the basic principles related to nuclear physics and the construction of nuclear weapons, said Dr. Richard R. Erickson, his advisor and an assistant professor of physics, after the presentation.

The project also received praise from one of Lycoming County's three radiation officers, who said that Stoner "is well-versed" in the field and "knows what he is talking about."

Only a test of a prototype built from Stoner's plans would actually confirm if the bomb would work. Dr. Erickson added, but based on the senior's oral presentation and scale model, it appears to contain the necessary elements to work.

Stoner presented a technical description of the inner workings of atomic and hydrogen bombs, but tried to explain his work in terms a layman could understand. He used items like a soccer ball and his polystyrene model to demonstrate what occurs during nuclear detonation.



Albert R. Stoner presented his H-bomb plans before TV cameras from CBS, NBC, and ABC.

Stoner entered the lecture hall to a mixed greeting of cheers and boos. The latter emanated from anti-nuclear demonstrators who felt that his presentation promoted the construction and use of nuclear weapons.

He quelled most of his critics, however, by stating that he, too, opposes the construction of nuclear weapons. And he explained that he has no intention of actually using his plans to attempt to build a hydrogen bomb, which would take the resources of a medium-sized world power, he said.

Rather, Stoner said, his project is an attempt to make people aware that nuclear weapons exist—that a hydrogen bomb is a real, live thing, it's not something that's in somebody's imagination.

Stoner also explained that it would be almost impossible for a terrorist group to build a bomb from his plans. Even if such a group could obtain the materials for a bomb, he said, it would take "quite a few physicists and engineers" with highly sophisticated equipment to actually build one.

The senior said he was not revealing any national

secrets. All the information he acquired was in declassified government documents and other public material. He also conceded that he is not the first layman to draw up plans for a bomb. A Princeton University student figured out how to build an atomic bomb a few years ago, and a journalist wrote a detailed article on an H-bomb for the Progressive magazine a couple years ago.

Stoner's bomb is about 50 times more powerful than the A-bomb dropped on Hiroshima, he said. It also would be less expensive to build because it would use cheaper materials.

Despite all of the media attention he received, Stoner managed to retain some normalcy in his life on campus before and after the colloquium. He continued to attend classes, even on the day of the presentation. That was difficult to do with reporters clamoring for interviews.

Stoner's wish after the colloquium was that things return to normal so he can graduate and land a job teaching astronomy or planetary education.

(Additional photo on page 2)

Lycoming makes major impact on local economy

By William H. Rupp, Editor

Lycoming makes a major impact on Lycoming County's economy, according to a study done by Dr. Robert W. Rabold, professor of economics and department chairman. He completed the study for the Pennsylvania Economy League's comprehensive study of the economic contribution of higher education to the state.

Lycoming's study shows that almost \$8 million is spent annually in the county by the college and its 1,200 students and 600 full- and part-time employees. This makes Lycoming a significant industry and one of the largest purchasers of goods and services in Lycoming County.

In turn, these expenditures create an estimated 545 to 700 other jobs in Lycoming County, according to the study. These jobs have an estimated annual payroll of \$7 to \$9 million. Without Lycoming's expenditures, hundreds of jobs and millions of dollars in payrolls that create even more spending and jobs would not exist in a county

already beset with double-digit unemployment.

Indeed, the impact of Lycoming's expenditures on the county's economy is significantly greater when this multiplier factor (the turning over of dollars in an economy) is applied. The college generates almost \$13 million in expenditures in Lycoming County using the multiplier of 1.6315 as calculated by Dr. Rabold according to an Economy League formula.

The credit base in Lycoming County also is expanded by almost \$1 million through the bank accounts of Lycoming and its employees and students. This is money which is put to work through loans made by lending institutions for industrial and business expansion, home mortgages, and consumer-credit purchases.

In addition, property owned by Lycoming's employees is valued at more than \$8.5 million. The property taxes generated by this investment are a significant support of

numerous municipal services, such as police and fire protection.

Released in mid-November, the Economy League's comprehensive study is titled "Higher Education and the Economy: A Survey of the Impacts on Pennsylvania's Economy of Its Colleges and Universities." It uses data supplied by 125 public and private colleges and universities for the years of 1979 and 1980. All of the data was prepared with League guidelines.

The League's study was completed for the Pennsylvania State Board of Education and the Pennsylvania Higher Education Assistance Agency (PHEAA) with coordination from the Pennsylvania Association of Colleges and Universities (PACU).

(Summary continued on page 2)

President's corner

As the next preschool child you meet what Christmas is and you will likely be told "Christmas is when we get presents." Children occasionally see clearly what grown-ups overlook. It isn't by chance that exchanging gifts came to be associated with the birth of Jesus. Christmas wouldn't be Christmas without gifts.

Yet, for many of us to accept a gift is very difficult. As children we knew how: later as adults on our own we forget how to receive.

Children are not ashamed to feel grateful. They don't insist upon providing everything for themselves and readily accept the reciprocity which gifts invite. They are not afraid to cross the bridge from the island of solitary self-sufficiency.

Adults, however, quickly learn to live alone. Even if haunted by loneliness, they fear dependency and prize being on their own. Consequently, they prefer getting to receiving. They enjoy having but tremble before the prospect of surrendering to the obligations of gratitude. They learn to covet and forget how to receive.

Gifts cannot be grasped. Buying the same thing for yourself is just not the same. Even when we stand on tiptoes, real gifts remain beyond our reach until we allow someone else to place them in our hands. They cannot be acquired because they can only be received, as this Christmas parable makes clear.

One Christmas eve a beggar seeking alms came upon a sack lying in a crevice. When he opened the sack he discovered it was filled with money, enough for a lifetime. Overjoyed, he sang a prayer of thanksgiving that now he could look forward to old age.

When two other beggars also seeking alms came upon the first beggar not knowing of his fortune, one began to lament their common misery while the other plotted to steal what he could from both. Sensing the need of the one and the advance of the other, the fortunate beggar resolved to himself to share half of his fortune with the one and nothing with the other.

That night while he was sleeping, the other beggars discovered his fortune. Both became covetous and

together they plotted to strangle him. When the fortunate beggar learned of their plot, he cast them out saying, "I would gladly give you gifts but because you who were beggars have now become thieves, you allow me to give you nothing."

Christmas is a gift, a new lease on life dropped by unseen hands from a heavenly star. Christmas remains a gift because it always comes as a surprise, as our fortune wrapped with gold, frankincense, and myrrh. It comes as a life-giving mystery in the chill of midwinter, unexpected and undeserved. Christmas is an enchanted gift, available only to those who admit they have no claim to its riches, no hold on the hands within which it rests. Like the twinkling in the eyes of a babe, it appears like magic from nowhere. Suddenly lying before us is the sack in a crevice. Christmas is a gift for beggars, enough for a lifetime yet never to be explained.

Fredrick S. Blum

Campus notes

STAN WILK, of the sociology-anthropology department, attended the Humanist Summit Conference at College Park, Md., in late October as a representative of the Society for Humanistic Anthropology. Representatives from 22 national and international humanist organizations met to discuss common problems and to determine how to work together to foster and promote humanistic principles.

Also, Wilk has had two reviews accepted for publication. His review of Michael Harner's "The Way of the Shaman: A Guide to Power and Healing," will be published in the *Medical Anthropology Newsletter*, the official publication of the Society for Medical Anthropology. His review of Arturo Warman's book, "We Come to Object. The Peasants of Morelos and the Nation State," will be published in the *American Ethnologist*, the cultural anthropology journal of the American Anthropological Association.

Wilk also gave a presentation on "Shamanism and Humanism" at the New School for Social Research in New York City in November.

"Tested Studies for Laboratory Teaching," a book produced by Kendall/Hunt Publishing Company, includes as its sixth chapter a paper written by MEL ZIMMERMAN, of the biology department. The paper, titled "Biomechanical Analysis of Vertebrate Skeletal Systems," includes a laboratory exercise presented by Zimmerman at the June, 1980, conference of the Association for Biology Laboratory Education. A mechanical model of the foot described in the exercise is being sold by a major biological supply house.

Also, Zimmerman has received an acknowledgment in a paper released by the Trans American Fisheries Society for his laboratory assistance at Miami University during the summer of 1980. The paper, "Aspects of the Feeding Ecology of the Gizzard Shad in Acton Lake, Ohio," determines the caloric content of shad food material.

Zimmerman also has accepted an appointment as a member of the Aquatic Insects Bioassay Committee for the 10th edition of "Standard Methods For the Examination of Water and Wastewater." The major reference manual outlines acceptable techniques for water analysis. It will be published in 1984 by the American Water Works Association, the American Public Health Association, and the Water Pollution Control Federation. As a committee member, Zimmerman will help determine acceptable bioassay techniques used to set pollution tolerance levels for aquatic insects and water.

DAVE FRANZ, of the chemistry department, had his paper, "Lead in Albuquerque Dirt and the Effect of Road Paint," published in the September issue of the *Bulletin of Environmental Contamination and Toxicology*. The paper is the result of environmental-analysis research done with Dr. William M. Hadley, of the University of New Mexico School of Pharmacy, while Franz was on sabbatical leave during the 1980-81 academic year. Franz was a Visiting Scholar in Chemistry at the New Mexico school. His research was funded partly by a Lycoming professional-development grant.

LOGAN RICHMOND, of the accounting department, spoke at Career Day at Loyalsock Township High School in November. He discussed the educational requirements for becoming a certified public accountant and described the profession itself. Richmond also discussed other career opportunities for accountants and the value of a liberal arts education to them.

JANET RODGERS, of the nursing department, was the keynote speaker at a nursing-research conference at New York University in November. Sponsored by the Upsilon chapter of Sigma Theta Tau, the national honor society in nursing, the conference was titled "Women's Health and Women's Issues: Social and Political Perspectives." Rodgers' speech dealt with "Women and the Fear of Being Envious."

ELLEN LEININGER, of the education department, has been invited to deliver her paper, "Story-Time Match. The Reader's Style: The Child's Listening Level, and The Book," at the annual conference of the Mid-Western Association for the Education of Young Children in May.

GARY BOERCKEL, of the music department, performed his lecture-recital, "Scott Joplin: Ragtime from Barrelhouse to Opera House," at the Governor's School of the Arts at Bucknell University last summer. He will be performing at the Governor's School again next summer.

The Eastern Pennsylvania Philosophical Association held its annual fall conference at Lycoming on Nov. 7. The conference, which attracted more than 50 philosophy instructors from colleges and universities throughout Eastern Pennsylvania, featured an address by Dr. Nicholas Rescher, a professor at the University of Pittsburgh and one of America's leading philosophy educators. He spoke on "The Limits of Science."

"Soli Deo Gloria," a composition written by FRED THAYER, of the music department, for the Lycoming choir, was selected last summer by the Charles Ives Center for American Music. The piece was performed by the Gregg Smith Singers at Canterbury School, New Milford, Conn.

Lycoming's Economic Impact

Employees	608
Students	1,200
Local expenditures (goods, services)	\$7,804,790
Other employment created	\$45 to 700
Local payroll created	\$7 to \$9 million
Local expenditures with multiplier	\$12,733,514
Credit base expansion	\$949,000
Employees' property value	\$8,505,300

National (continued)



With part of his H-bomb scale model on the floor of his room, Albert Stoner prepares for his presentation.

Cover photo

At Lycoming's annual Tree-Trimming Party Dec. 6, Mrs. Santa Claus (Irene Everdale, secretary in the buildings and grounds office) gives a little Christmas present to one of her admirers, Lauren A. Rupp, daughter of William H. Rupp, director of public relations.

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Transcripts

To assure prompt service by the Office of the Registrar to your requests for college transcripts, please follow these guidelines:

- Requests should be made in writing. (Federal regulations prohibit the processing of telephone requests.)
- Give as complete a mailing address as possible. Full names, titles, office names, and the like should be included if known.
- Include your current mailing address and the dates of your graduation or attendance.
- Enclose \$3 for the first copy of a transcript, and \$1 for each additional copy requested at the same time.
- Your cooperation in this matter will speed your transcript on its way.

Christmas at Lycoming: Dinner, parties, candlelight service

Three traditional Lycoming Christmas festivities highlighted the holiday season on campus this year. They were joined by two new ones.

The traditional events included the annual All-College Tree-Trimming Party, the Candlelight Vesper Service, and the All-College Dinner. The new events included a semi-formal dinner-dance for students and a Christmas party for senior citizens.

A performance by the Lovelace Marionette Theatre of Pittsburgh entitled "Carnival in Rio" was the feature attraction at the Dec. 6 tree-trimming party. Still, the show couldn't quite upstage the arrival of Santa Claus, at least to the children.

Other activities included the trimming of two 10-foot spruce trees with handmade decorations — most of which were Origami creations — and the singing of Christmas carols. Refreshments were served all afternoon. The party, co-sponsored by the Campus Activities Board and the Women of Lycoming, was held in Burchfield Lounge of Wertz Student Center.

The candlelight service was held on Dec. 15 at 10 p.m. in Clarke Chapel. It included a slide program; a Christmas antiphon; anthems by the college concert choir; carolling, and a Christmas prayer by Lycoming President Dr. Frederick E. Blumer. Father John Tamalis, Roman Catholic chaplain, and the Rev. Jerry Eischeid, campus minister, led the service. It was followed by a reception in the United Campus Ministry Center.

The New Mexican custom of filling paper bags with sand and placing a candle in each one as a luminaire also was observed again this year as part of the candlelight service. The flag court and chapel area were decorated with the luminaires.

The Wertz Student Center dining hall was the site again this year for the annual All-College Dinner. College employees, their families, and retirees attended the Dec. 18 dinner, as did Lycoming's living group advisors (LGAs). Many LGAs stayed on campus that evening to help close the residence halls for the three-week Christmas vacation that began Dec. 18 and ends Jan. 10. The dinner included Dr. Blumer's annual Christmas message.

The dinner-dance, sponsored by the Class of 1982, was held in the Wertz dining hall and the East Hall lounge on Dec. 5. A band provided live music for the event, which was open to the entire student body.

About 20 residents of two Williamsport-area nursing homes were treated to a Christmas party by members of the Lycoming chapter of Beta Beta Beta, the



Santa Claus (Jack C. Buckle, dean of student services) gave rides in his one-horse sleigh to children at the annual Tree-Trimming Party on campus.

biology honor society, on Dec. 10. Held in Burchfield Lounge, the party included carolling and a performance by a student guitarist.

Refreshments were provided by the students, who transported the senior citizens from the nursing homes to the campus.

Student spotlight: J. Martin Kutney, budding stage star

By Cindy L. Bell '82

The "triple threat."

In theatre lingo, that's the ability to sing, dance, and act. And that's what J. Martin Kutney is devoting his life to becoming — a triple threat.

A junior theatre major at Lycoming, Kutney maintains a busy schedule of singing, dancing, and acting in an effort to polish his character for the stage life.

Kutney, of Montoursville, pegs his avid interest in the theatre back to his early school days.

"I used to love to watch 'Wonderama' and their dance contest," he said. "I used to wish I could get on that show."

Kutney's first introduction to the arts was in the fifth-grade choir. It wasn't until his freshman year in high school that he was in a play, a potpourri Bicentennial review entitled "The Way We Were."

"I was Fred Astaire," he recalls, pointing to a poster of his theatre hero. As a youngster, he said, he would set his alarm clock under his pillow, wake up in the middle of the night, and secretly watch Fred Astaire movies.

While a student in Montoursville High School, Kutney appeared in the leading male role in four shows: "Oklahoma," "Hello, Dolly," "Camelot," and "Cabaret." During the summers, he performed with the Williamsport Players, landing supporting roles in "Pippin" and "Fiddler on the Roof."

A transfer student from Clarion State College, Kutney originally never considered Lycoming "because it was so close (to home)." But Clarion lacked the individualized attention that is so important to him as an actor, he said, and he transferred after one semester.

At Lycoming, Kutney has appeared in many Arena Theatre productions. He played the leading role of Candide in the production of "Candide" last spring, and he was one of five performers featured in the recent production of "Unsung Cole."

Presently, he is directing a one-act play in the college's Downstage Theatre entitled "The Marriage Proposal," by Anton Chekhov. In April, he will choreograph the musical, "The Robber Bridegroom."

Last spring, Kutney investigated summer job opportunities through the University Resident Theatre Association (URTA), which screens college actors for nationwide productions. At the highly competitive auditions, he realized he was the youngest student present, but he plugged along and became the first Lycoming student to reach the finals.

Out of that experience came several offers for summer

employment, including two at Shakespeare festivals. Preferring musical theatre to Shakespeare, he signed with the famous Gateway Playhouse at Bellport, Long Island.

At Gateway, one of the top summer-stock companies in the country, Kutney was a resident company actor. He landed supporting roles in all five of the summer productions, his "first taste of the real theatre world."

"It got me prepared for show life," he said, referring to 13 hours a day of rehearsal. "It was constant push, push, push. We would be performing one show at night, but rehearsing another one during the day."

He learned his limitations, too.

On one of their days off, the cast drove to Fire Island beach. The fair-haired, 20-year-old got so sun-burned that cast members had to rub him down with ice that night. The next evening, back on stage to open the second act of

"I Love My Wife," Kutney ran through his big solo and dance number, including a jump onto the top of a piano. On the way off stage, he passed out walking down a flight of stairs and awoke to find fellow cast members applying cold compresses and changing his costume at the same time. He went out and finished the act.

Before Kutney returned to Lycoming for the fall semester, the director of the national touring company of "Pippin" convinced him to audition for a role. He was one of two actors in the final callback for the lead part. He didn't get the lead, but he was offered the understudy and a chorus part: a chance to go on the road with a theatre troupe. After talking over the offer with his parents and Dr. Robert Falk, chairman of the theatre department, he declined the offer.

"Before I wanted to get my feet all wet, I wanted to get a chance to direct and choreograph some shows," he said. "I'll get that chance this year. And I really feel education is important to me."

Other opportunities to steer away from a degree are sure to loom in Kutney's path. He recently auditioned for the Broadway and London productions of "A Chorus Line," and was one of 25 actors to survive the "cattle call" of 400 that started.

"I didn't think I'd get past the first cut!" he said of his first Broadway audition.

"When I'm auditioning for big shows, I don't really have anything to lose. I still have school to come back to," he said. "Right now, I'm just going in (to New York) for the things that are right for me."

The future is sure to hold unexpected prizes for Kutney. In the spring semester, he will do an independent study in choreography, and will teach a dance class. His final project is to choreograph "The Robber Bridegroom."

Gateway has already asked him back, but his ears are open for other opportunities. He keeps in shape by working out every other day for 1½ hours, concentrating on stretching exercises and various dance maneuvers.

Kutney is interested in writing plays, but "I'm so busy performing!" he said. He feels that once he gets a hold on the performing aspect, he can write.

"You must develop the performing end by trying the different ends of the art," he said.

The triple threat?

"I'm doing what I like to do and what I think I do best," he said. "I'd like to make a living out of it. If I can do that, I'll be happy."



J. Martin Kutney

President, Mrs. Blumer get first-hand look at dorm life

By Cindy L. Bell 82

On most campuses, spotting the college president walking through a dormitory could mean trouble. But at Lycoming, it means relief.

When Dr. Frederick E. Blumer is seen in Skeath Hall, a freshmen dorm, he's there with a listening ear and a pocketful of advice. He and his wife are part of Lycoming's "faculty-associates program," in which faculty members and administrators to spend several hours a week visiting freshmen in the residence halls.

Being in the dorm is a new experience for the Blumers. "There's nothing like being there to see how it works," Dr. Blumer said. "I don't think it's changed the basic orientation, but I know it has filled out my understanding of student life. It makes concrete what you think of as fact. It has changed my understanding of what is involved in student life."

The President enjoys the change in scenery from his office in Long Hall to the "faculty-associates room" in the dormitory.

"There's nothing like being on their turf," Dr. Blumer said. "It makes me more aware of the sorts of problems that students consider to be the important problems, as opposed to the ones that I think they are likely to be thinking about."

While Dr. Blumer feels he can anticipate students' problems, it is another thing when they confront him with questions like, "Where's the vacuum cleaner?"

"Now who would have ever thought that would have been one of the issues that men in a freshmen dorm would put to a faculty associate?" Dr. Blumer said.

But a pile of dirt on a room floor was a real problem, so the President had to solve it.

"They (freshmen) haven't really had any pressing problems," said Mrs. Blumer. "But they haven't been there long enough to have them."

As a result, the Blumers have found themselves advising on the best pizza places in town, the best restaurants to eat in with their parents, and good shopping areas.

"All of those put together give you a very clear idea of what students are confronting," Dr. Blumer said.

The Blumers were approached last spring by LouAnne Caliguri, assistant dean of student services, who asked them to participate in the faculty-associates program.

They were assigned randomly to a dormitory wing.

Not knowing quite what to expect, the Blumers took some advice from a former faculty associate. "Be there when they (students) arrive to move in. You will look to them like a part of the furniture."

So on moving day, the Blumers were ready in their room. As the students and their parents began to arrive, they welcomed them to Lycoming. Their plan worked because later one student admitted wondering how the Blumers could live in that small room.

"We did not introduce ourselves as anybody except faculty associates," said Mrs. Blumer, "although several parents recognized Fred. We were there to perform the faculty-associate function, and didn't have anything to do with his being President of the school."

"We wondered whether or not our being there would be intimidating," said Dr. Blumer. "It apparently hasn't."

"Especially me, because I'm the only woman in the building," added Mrs. Blumer.

Having the President as their faculty associate doesn't seem to bother the freshmen.

"I can hardly get in the place, put my key in my lock, ready to open my door, and there'll be three guys standing there!" said Dr. Blumer.

And students come from other wings to visit the Blumers.

"They don't hesitate to drop in," he said. "We have regulars from the other end of the hall."

"The thing that I'm amazed at is that they seem fairly comfortable with us," said Mrs. Blumer. "They are really nice, young men who make a conscious effort to stop in when we're there."

When the Blumers visit Skeath, they usually take along some homemade baked goods for the guys. They also support their wing in intramural activities.

The President has found the experience especially gratifying in "just getting to know some of the freshmen guys."

"They are able to see us in a different light," he said. "We're not authority figures or some aloof, removed persons."

It's hard for any administrator to bridge the normal gulf between student and administrative offices. This

provides a very simple, direct, and effective way for us to get to know some students personally and for them to get to know us personally. We need a mechanism for that, and we have it."

Overall, the Blumers have found dorm life to be satisfactory.

"One of the things that I thought was probably true, but didn't really know, was that the dorms are a lot quieter, a lot more pleasant, than some of the horror stories that float around," Dr. Blumer said. "When you get that many people together, occasionally you get some noise. On Friday afternoon at 4 p.m., the stereos are on. But on Tuesday evening in Skeath Hall, it's quiet."

"And it isn't because they know he's coming, because he goes in and out over there during the day, when they least expect him," said Mrs. Blumer.

"I'm sure there are noisy times, but it's episodic," said Dr. Blumer. "That's the point I suspected in the beginning; problems are episodic. And that experience has proved that every now and then we have a problem, but it is not a continual, habitual thing."

The Blumers always have been very involved in student life. Campus organizations continually invite the President and his wife to their functions, and the Blumers attend as many as possible.

"But this is a much better normal arrangement," Dr. Blumer said of the associate program. "Other things just grow out of it naturally."

Dr. Blumer feels that the freshmen he works with can assure other students that he, as President, is accessible to them.

"And if we continue this (the associate program) year after year, pretty soon we're going to have a fair portion of the student body feeling quite comfortable," he said. "We have a social situation that is really quite nice and healthy."

Will the Blumers remain in the program?

"Sure we'll do it again," Dr. Blumer said. "It has been a very pleasant experience. I would recommend it to any college president, it he could possibly work it into his schedule."

There couldn't be any better way to spend my time."

New registrar named

Mrs. Betty J. Pans '70, who has been employed by Lycoming since 1963, has been promoted to the position of registrar. It was announced in late November by Dr. Frederick E. Blumer, President.

Mrs. Pans, formerly the recorder in the registrar's office, replaces Robert J. Glunk '59, of Salladasburg, who resigned Oct. 31 to assume the position of director of general services at Jersey Shore Hospital.

The new registrar assumed the post of recorder in early 1980. Before assuming that position, Mrs. Pans was administrative assistant to the director of institutional relations, and secretary to the directors of development and public relations.

The Williamsport native holds a B.A. degree in English from Lycoming and has studied at Gettysburg College. She was named in September to the Lycoming chapter of Phi Kappa Phi national honor society.

Mrs. Pans and her husband, Charles A., live in Williamsport. They have two sons.



Betty J. Pans

DEPTH: Students helping students

If nothing else can help new students adjust to college life, perhaps older students can.

That is the premise behind a new peer-counseling program at Lycoming that has students helping each other deal with personal problems.

Known as DEPTH (Doing Everything Possible To Help), the program was launched in October to help students cope with everyday problems.

Directed by the Office of Student Services, peer counselors are trained volunteers who offer several hours a week of their free time to counsel fellow students.

Volunteer counselors undergo a 40-hour training session that provides them with a basic knowledge of problems facing students, and instruction in dealing with those problems. Topics include death, sex, drugs and alcohol, and family relationships. Counselors also are informed of local agencies that give professional assistance.

A counseling center has been established in the basement of Forrest Hall. Students have furnished the room and hung posters. Currently, the center is open seven days a week, from 5 to 11 p.m.

"Basically, it's a referral center," said Jack C. Buckle, dean of student services. "The counselors can turn the students to someone else for assistance, particularly professional help. It's our way of getting students who can help them, either through campus resources or off-campus resources."

"People always want to help," said Thomas Wozniak, an assistant dean of student services. "There are a lot of students on campus who care - but who give advice which may be inaccurate. We want to take those people and train them to help and to help well."

"We want the counselors as facilitators," added LouAnne Caliguri, another assistant dean of student services. "They are resource people who can make referrals - they are not heavy counselors." Sophomore Paul Hart, of State College, was elected student chairman of the program by his fellow counselors. His immediate goal is to make students realize that the program exists.

"There are people on this campus with problems, and we can help them," he said. "The problems are not being dealt with properly, and are being hidden away (by students)."

With a planned publicity campaign, Hart feels the word on DEPTH will spread around, and it will be accepted.

Another counselor, senior Margaret Combs, of Sayville, N.Y., feels that students must be able to trust the program, to come and talk with the counselors, and know that they say will be kept confidential.

She also recognizes the personal benefits of the program, particularly in acquiring skill as a listener.

"I've learned to listen and not jump in," she said. "You don't advise people, but give them an option instead. Help them to answer their own problems."

Also offering occasional advice to DEPTH students is an advisory board, comprised of the Office of Student Services staff, a member of Lycoming's psychology department, three student counselors, and Cindy Mengel, of the Williamsport Hospital Planning Center.

"The board will be used on an 'as-needed basis,'" according to Miss Caliguri. "It will recommend improvements or make suggestions if necessary."

"We want to help the students, but not to stifle the peer counselors," added Wozniak. "The advisory board will help through its objective observation."

Long-range goals of the program include increased training for the counselors in career development, academic training and placement, study skills, and general academic survival. Eventually Buckle said, he would like to see the center located permanently in a separate facility with direct access from the outside, and be open seven days a week, 24 hours a day.

Choirs, orchestra join

For the second consecutive year, the choirs of Lycoming and Williamsport Area High School joined with the Susquehanna Valley Symphony Orchestra to present a program of major works on Nov. 22. The concert was held in Williamsport's St. Boniface Roman Catholic Church.

Approximately 200 performers participated in the program, which featured Stravinsky's "Symphony of Psalms," Brahms' "Nanie," and Samuel Barber's "Adagio for Strings." The combined choirs included more than 150 voices.

Dr. Fred M. Thayer, Jr., assistant professor of music and choir director at Lycoming, and Thomas Gallup, choral music director at the high school, conducted the concert. The 55-piece orchestra is led by Dr. Donald W. Beckie, associate professor of music at Susquehanna University.

The major-works concert was the second community event of its type combining the college and high school choirs, but the first such musical program involving the entire symphony orchestra. The 1980 major-works concert included only a portion of the orchestra, and was not a part of the orchestra's concert series, as was this year's concert.

The value of a liberal arts education

By Dr. Stanley F. Paulson, Dean
College of Liberal Arts
The Pennsylvania State University

Should we pity today's liberal arts graduates? After all, they are armed with general knowledge good only for cocktail party dynamics. They are ill-prepared for the world of work, neglected by employers courting students of business and engineering curricula, and beset by slim opportunities for advancement if they do gain a managerial toehold.

So goes some of the popular thinking on the subject. Fortunately, a growing body of evidence suggests quite the opposite: liberal arts graduates are perhaps better suited for managerial careers than many of their more technically trained counterparts.

A rash statement? Perhaps, but consider the results of a new study, "The Liberal Arts Major in Bell System Management," by the American Telephone and Telegraph Company.

In 1956, Bell selected 274 recently hired college graduates for a management-progress study that would continue for 25 years. Of the sample, 38 percent were liberal arts graduates (either humanities or social science majors), 25 percent were engineering graduates, and 35 percent were business graduates.

Comparing the three groups, Bell found that liberal arts graduates scored high in administrative and interpersonal

"...liberal arts graduates...started at lower salaries...Over a period of time...however, they outdistanced the field in (more specialized occupations) in salaries, and presumably in value to their organizations."

skills, verbal ability, and advancement motivation, but low in quantitative ability. The engineers scored low in each category except for high marks in quantitative ability. Business graduates scored high in interpersonal skills and advancement motivation, but low in verbal and quantitative ability.

The 25-year study revealed that "Nearly half (46 percent) of the humanities and social science majors were considered to have potential for middle management, compared to only 31 percent of the business majors, and

26 percent of the engineers."

According to the study, "One overall conclusion from these data is that there is no need for liberal arts majors to lack confidence in approaching business careers. The humanities and social science majors in particular continue to make a strong showing in management skills and have experienced a considerable business success. We hope and expect this to continue."

There is evidence, also, that liberal arts graduates often acquire analytical skills that are somewhat different from those in other vocational specializations. A recent study by psychologists Winter, Stewart and McClelland matched liberal arts graduates against more vocational counterparts at three institutions. It found the former group to be superior in conceptual analysis, evaluation of reasoning, and leadership motivation. This motivation, McClelland writes, is "usually found in individuals who are considered effective leaders - managers who have a talent for creating in their subordinates such qualities as high morale, a sense of responsibility, organizational clarity, and team spirit."

I mention this because some employers may assume that the student who majors in a vocational field is likely to be higher in motivation and aspiration than liberal arts majors. There is further evidence, however, demonstrating that liberal arts graduates who go into such positions tend not only to show motivation, but also achieve satisfaction in their work.

In a study of liberal arts graduates who had been in their jobs nine years, researchers Ochsner and Solomon found that from 62 to 80 percent of them, depending on their discipline, were "very satisfied." They found 46 percent of the engineers, for example, reporting similarly.

This is not surprising since the liberal arts graduate is not trained for one type of work and doesn't have set expectations of what it should be. From the organization's point of view, the advantage of liberal arts graduates' flexibility is that they can be more adaptable to its needs.

At Penn State, we followed a sample of liberal arts graduates from 1955, 1960, and 1965 to compare their progress with specialists in various fields. We found that they started at lower salaries than those trained in such occupations as computer programming, sales, marketing and administration. Over a period of time ranging from three to 14 years, however, they outdistanced the field in every one of those occupations in salaries, and presumably in value to their organizations.

Assuming that recruiters want to hire graduates who, over the long haul, will develop into leaders, it is a bad investment to choose only specialists. General Motors, for instance, is one of several corporations that have recognized this, and it has developed a working relationship with a group of liberal arts colleges to bring selected graduates into the corporation for training as production supervisors.

"...we must not lose sight of the fundamental purpose of a liberal arts education: to prepare students for life - not merely making a living."

Certainly, our increasingly technological society will continue to need well-educated specialists in engineering, business, agriculture, and government. They deserve the best universities can offer.

Yet the liberal arts graduate has special skills just as the engineer or the accountant does, skills that are just as valuable to the organization and its development. Interpersonal and communications skills are highly developed in talented liberal arts graduates, and they are of particular importance in our increasingly complex organizations. These skills are part of studies which also provide background in cultural, social, and political possibilities.

The imperative for those of us who educate liberal arts students is to inform the business community of their value, particularly in a time when government and the social services - those traditional havens for liberal arts graduates - are retrenching. We must ensure that our own college placement offices are not serving as compatibility dating services, matching only on the basis of recruiter preference. Corporate recruiters need education, too, about the skills liberal arts graduates have to offer.

And we in the liberal arts must also look to ourselves. Liberal arts students and faculty members need education on the world of work, on job opportunities where our college graduates typically have not gone in the past. We must work more closely with our students on course planning and career choices. But in our efforts to equip our students for survival in difficult economic times, we must not lose sight of the fundamental purpose of a liberal arts education: to prepare students for life - not merely making a living.

World becomes classroom for student interns

By Cindy L. Bell '82

"There's nothing worse than pig manure."

At least, that's the way Lycoming student Amy Lang felt after working a day in the barnyard on her fall semester internship with a veterinarian.

Mrs. Lang was one of several biology majors involved in Lycoming's internship program last fall. The program offers all students a chance to gain valuable and marketable on-the-job experience and credits each semester with businesses, nonprofit organizations, and other cooperating agencies or professionals.

Interning with Dr. T. L. Zimmerman's large-animal practice in Lewisburg, Mrs. Lang not only observed the vet in action, but climbed into the pen with the animals.

The senior said she came home covered with manure.

Also, as part of her internship, Mrs. Lang conducted research into the feasibility of transplanting cattle embryos. Eventually, she would like to work in a zoo.

Ron Powers, of Jersey Shore, was another biology intern last fall. He worked at the Lamar National Fish Hatchery, which is attempting to restock the Susquehanna River with American shad. Powers studied the river's water quality to see if it will support the fish.

Another student, Jeff Wert, of Stroudsburg, interned at Lamar last spring. His study resulted in the publication of a pamphlet describing the dangers of acid rain.

Powers also worked with Kim Swigart, of Hackettstown, N.J., in a field-classification study of the "hemlock hollows" of the South White Deer Ridge area of Lycoming County. By comparing the vegetation, temperature, soil chemistry, and soil invertebrates of the hollows with that of the ridges, they gained insight into black bears' preferences for the hollows for food and shelter.

Several other students worked with the Pennsylvania Game Commission last summer, collecting data on Northcentral Pennsylvania's bear population.

Senior Charlene Messner, of Roaring Branch, and Walter Fisk, a 1981 graduate, performed extensive field studies, including trapping and tranquilizing bears, weighing and tagging them, pulling teeth to determine their ages, and taking blood samples for laboratory analysis. Several bears were radiocollared so they could be relocated later by telemetry from a helicopter or plane for analysis of their movements within their habitats.

Messner is continuing to study the embryological development and reproductive potential of the black bear.

Steve McDonald, of Mansfield, also worked with black bears last semester. Using techniques acquired in a



Walter Fisk '81 and Charlene Messner '82 working in the wilds of Northcentral Pennsylvania during their internship with the Pennsylvania Game Commission.

veterinary internship and parasitology course, he conducted a seasonal food analysis and parasite survey of the animals.

Don Byerly, of Milton, combined his double major of biology and chemistry in an internship with the Williamsport Municipal Water Authority. He analyzed sewage to gain experience in the microbiological aspect of sewage and chemical analysis.

John Kiessling, of South Williamsport, a pre-dental student, completed a summer of study with Dr. Robert Frederickson, of Williamsport. He studied with the hygienist, dental assistant, oral surgeon, orthodontist, and periodontist. As a continuation of his internship, Kiessling

is researching the development of the oral cavity and associated mouth parts in mice embryos.

Joe Virgulti, another pre-dental student from Bristol, interned with Dr. Daniel Wurster, of Williamsport. In addition to observing dental procedures, he worked as a dental assistant in the daily practice and in surgery.

Whatever interns do - reading, conducting tests or research, climbing into animal pens, or simply observing - they gain experience they can't get in the classroom, as Mrs. Lang discovered during surgery on the twisted stomach of a cow.

"The surgery was done right in the barn," she said, "with all of the flies and manure."

John Holmes, women cage's were undefeated after two

Senior captain Adam Zupac (Conshohocken) who should score his 1,000th career point sometime in January.

Cuantaro, Lycoming's most talented male swimmer, established a school record in the 1,000-yard freestyle with a 10:48.7 clocking against Dickerson.

The native U.S. Matula in Centre County became a young firefighter in 1974. "Each year, Council gave me an opportunity for which I always be-

When asked to name an all-Steve Wise defense at
 11, the coach hesitated before naming players.
 That's difficult to say, Bob Simon: 81 Ron Hoover
 81 Steve Connaghan 82 I can't give you
 individuals, Mike Prowant 79 Tony DiSandro 80 Jerry
 Butler 79 John Donahue 80 Mickey Pease 82 Doug



Despite the time he commits to football and teaching, Wisner is a family man first. He and his wife, Vicki, are the parents of four children: Matt, Ben, Joey, and Jenna. The boys, you might have guessed it, are becoming football managers. And who knows, possibly linemen of the future.

But a lion's roar is the sound of a lion's heart.

Randy J. Baker

SAC Southern Division Conference



Jessica Day, daughter of Mrs. Joanne B. Day, assistant dean of student services for career development, found Rudolph the Red-nosed Reindeer quite fascinating at the Tree-Trimming Party. Darin Ward, a freshman from Mifflinburg, played Rudolph.

'Greek' guide taking shape

In an effort to help Lycoming's fraternities and sororities achieve objectives common to the college, the Office of Student Services is drawing up a list of expectations the Greek system can use as a guide.

Although still in the development stage, the document will include objectives Lycoming feels its six fraternities and three sororities should strive to meet so they can remain supportive, responsive, and valid groups on campus.

The document also will contain items on which to evaluate each organization's efforts to meet the objectives.

Objectives expected to be a part of the final document include: intellectual development, the development of a set of ethical and moral values, the development of responsible citizenship and leadership skills, and the development of responsible attitudes toward the housing facilities provided by Lycoming.

The Greek organizations will be evaluated on items such

as: the care and use of housing space, the organization's grade-point average, social programs, loyalty to individual groups and the Greek system as a whole, respect for the rights of non-members, and the avoidance of hazing in initiation and pledging programs.

According to the Office of Student Services, the goals of fraternal groups and institutions of higher education historically have been very similar. It is only when the goals differ that problems usually arise.

**AMERICA'S
ENERGY IS
MINDPOWER**

Senior writes pamphlet

A Lycoming senior has written a pamphlet on acid rain, one of America's leading environmental problems that is the first of its kind available to the public.

Jeffrey R. Wert, a biology major from Stroudsburg, wrote the five-page pamphlet, titled "Acid Precipitation—Its Impact on Fisheries," for the U.S. Fish and Wildlife Service of the Department of the Interior. The pamphlet culminated a four-month internship with the Lamar National Fish Hatchery, west of Lock Haven.

Wert's pamphlet is being distributed to wildlife research stations across the northeastern United States, where acid rain is considered most hazardous. It will be displayed at the research centers with other publications on environmental topics.

As an intern investigating acid rain, Wert spent hundreds of hours using the Lamar facilities and The Pennsylvania State University library. He wrote the paper with assistance from Dr. Melvin Zimmerman, assistant professor of biology at Lycoming, and Ron Howey, a biologist at Lamar.

Trainer (continued)

athletes in Lycoming's 11 intercollegiate sports.

The 'rehab' room, located in the new physical education center, is Baker's center for treating sports injuries. According to the 22-year-old trainer, it contains all the modern equipment, including a whirlpool and an Orthotron—a scientific weight machine used for testing and strengthening muscles.

When Baker is not at a game or in the rehabilitation room, he usually is teaching classes for Lycoming's apprenticeship training program.

Students interested in becoming athletic trainers take special courses in conjunction with their majors. They also must have 1,800 hours of practical experience. To gain trainer certification, students must pass a post-graduate exam given by the National Trainers Association. Baker explained that because more and more states are requiring high schools to have trainers, the job prospects for teacher/trainers are very good.

Baker speaks very highly of Lycoming's seven student trainers.

"They work very hard," he said. "They are on a team... that plays year round."

Baker said the apprenticeship program gives the students a lot of responsibility. Because he can not cover two sports at once, he assigns his more experienced students to various sports.

Although this is Baker's first full-time job, he did work a summer with the Pittsburgh Pirates minor league team in Bradenton, Fla.

While some people might consider Baker's job drudgery, to him it is the next best thing to playing the game. A former athlete at Williamson High School, he encourages anyone interested in sports—but who is not an exceptional athlete—to consider becoming a trainer. After all, you always get a front-row seat.

SPECIAL SALE of Lycoming Choir Music

Two albums recorded by Lycoming choirs from the early 1960's are being offered again for sale by the Alumni Office.

The albums, "Great Day" and "Let Us Break Bread Together," are directed by former choir

director Walter G. McIver, professor emeritus of music.

Cost of the albums is only \$1 each plus 50 cents for postage and handling.



Lycoming Choir: Great Day. Set Down, Servant, Steal Away, Rock-A Mah Soul, Oh! Susanna, Lonesome Valley, Polly Wolly Doodle, Ol' Man River—and others... 14 great songs in all.



O Sing Ye To The Lord, Salvation Is Created, My Faith Looks Up to Thee, Now Thank We All Our God, This Is My Father's World—12 familiar religious compositions.

Send order to Alumni Office
(Make checks payable to Lycoming College)

CAMPUS CALENDAR

January - February

Feb 12-13 17:30	Arena Theatre American Buffalo by David Mamet	8:00 p.m.
Jan 15 - Feb 11	Art Gallery Lee Yarosz: exhibition of watercolor and oil paintings	
Feb 20	Opening reception	7:00 - 9:00 p.m.
Jan 31	Musics Delight Clarke Chapel	TBA
Feb 1	Clarke Early music group from Ithaca College	Clarke
Feb 2	Lycoming College Concert Band Concert Presser Recital	TBA
Feb 2	Clarke Cam' Michael - tenor	Clarke
Feb 26	McIver Recital Westminster Chapel Choir	8:00 p.m.
Feb 26	Barry Hannigan - pianist	Clarke
	Basketball	
Jan 2	Ithaca	1:00
Jan 4	Bucknell	8:00
Jan 5	Susquehanna	8:00
Jan 6	Scranton	8:00
Jan 13	Albright	8:30
Jan 16	Fairleigh Dickinson-Madison	3:00
Jan 20	Elizabethtown	8:00
Jan 25	Navy	7:30
Jan 27	Lunata	8:00
Jan 30	Philadelphia Textile	3:00
Feb 6	Baptist Bible	8:00
Feb 6	Wilkes	8:00
Feb 10	Albright	8:00
Feb 13	Susquehanna	3:00
Feb 17	Delaware Valley	8:00
Feb 20	Elizabethtown	8:00
Feb 25	MAC Playoffs (if qualify)	8:00
	Women's Basketball	
Jan 12	Susquehanna	7:00
Jan 14	Messiah	7:30
Jan 14	Northfield State	8:00
Jan 22	Morehead	7:00
Jan 26	Williamport Area Community College	7:00
Jan 30	Drew	8:00
Feb 4	Lunata	7:00
Feb 6	Marshall State	8:00
Feb 6	Wilkes	7:00
Feb 13-14	King's Tournament	7:00
Feb 16	Morehead	7:00
Feb 20	Elizabethtown	6:00
Feb 24	Marywood	7:00
	Wrestling	
Jan 16	Lunata, Gettysburg	Noon
Jan 19	Bucknell	8:00
Jan 21	Delaware Valley	7:00
Jan 26	Marshall State, Baptist Bible	Noon
Jan 30	Princeton, Cornell, Virginia Tech	8:00
Feb 3	Scranton	Noon
Feb 6	Elizabethtown, Lunata, Messiah	8:00
Feb 9	Susquehanna	8:00
Feb 13	Wilkes	8:00
Feb 19-20	MAC Championships	
	Swimming	
Jan 9	King's, Rider (m)	1:00
Jan 12	Susquehanna (m & w)	7:00
Jan 21	Bloomsburg State (w)	4:00
Jan 27	Wilkes (m)	1:00
Feb 6	Wilkes (m)	2:00
Feb 13	Wilkes W. Maryland (m & w)	7:00
Feb 16	Bloomsburg State (m)	
Feb 23-27	MAC Championships (m & w)	

LYCOMING COLLEGE
REPORT



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